

10/521,531

07/16/2008

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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JAN 02	STN pricing information for 2008 now available
NEWS	3	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	4	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS	5	JAN 28	MARPAT searching enhanced
NEWS	6	JAN 28	USGENE now provides USPTO sequence data within 3 days of publication
NEWS	7	JAN 28	TOXCENTER enhanced with reloaded MEDLINE segment
NEWS	8	JAN 28	MEDLINE and LMEDLINE reloaded with enhancements
NEWS	9	FEB 08	STN Express, Version 8.3, now available
NEWS	10	FEB 20	PCI now available as a replacement to DPCI
NEWS	11	FEB 25	IFIREF reloaded with enhancements
NEWS	12	FEB 25	IMSPRODUCT reloaded with enhancements
NEWS	13	FEB 29	WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS	14	MAR 31	IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS	15	MAR 31	CAS REGISTRY enhanced with additional experimental spectra
NEWS	16	MAR 31	CA/CAPLUS and CASREACT patent number format for U.S. applications updated
NEWS	17	MAR 31	LDPCI now available as a replacement to LDPCI
NEWS	18	MAR 31	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	19	APR 04	STN AnaVist, Version 1, to be discontinued
NEWS	20	APR 15	WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS	21	APR 28	EMBASE Controlled Term thesaurus enhanced
NEWS	22	APR 28	IMSRESEARCH reloaded with enhancements
NEWS	23	MAY 30	INPAFAMDB now available on STN for patent family searching
NEWS	24	MAY 30	DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option
NEWS	25	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	26	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	27	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	28	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	29	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	30	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records

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NEWS 31 JUN 30 EMBASE, EMBAL, and LEMBASE updated with additional  
options to display authors and affiliated  
organizations  
NEWS 32 JUN 30 STN on the Web enhanced with new STN AnaVist  
Assistant and BLAST plug-in  
NEWS 33 JUN 30 STN AnaVist enhanced with database content from EPFULL  
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 07:43:01 ON 16 JUL 2008

=> FILE REG

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 07:43:18 ON 16 JUL 2008

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STRUCTURE FILE UPDATES: 15 JUL 2008 HIGHEST RN 1034171-01-1

DICTIONARY FILE UPDATES: 15 JUL 2008 HIGHEST RN 1034171-01-1

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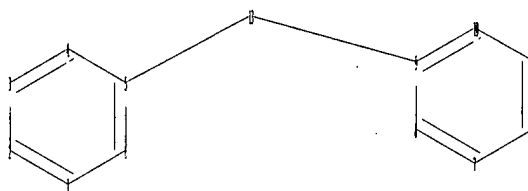
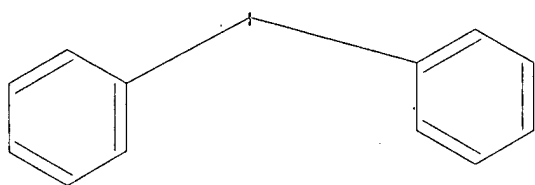
<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\GG.str

10/521,531

07/16/2008



chain nodes :

13

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

5-13 9-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

5-13 9-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

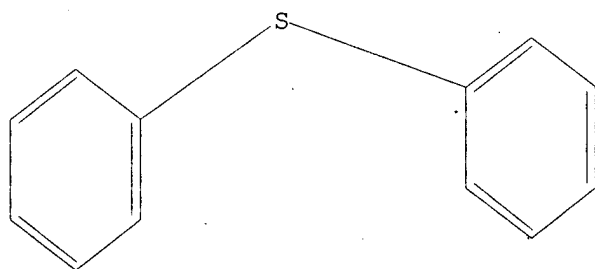
11:Atom 12:Atom 13:CLASS

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL

FULL SEARCH INITIATED 07:44:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 257915 TO ITERATE

100.0% PROCESSED 257915 ITERATIONS

133701 ANSWERS

SEARCH TIME: 00.00.01

L2 133701 SEA SSS FUL L1

10/521,531

07/16/2008

=> FILE CAPLUS  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
178.36	178.57

FILE 'CAPLUS' ENTERED AT 07:44:10 ON 16 JUL 2008  
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FILE COVERS 1907 - 16 Jul 2008 VOL 149 ISS 3  
FILE LAST UPDATED: 15 Jul 2008 (20080715/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> S L2  
L3 69197 L2

=> S L3 AND DEUTERATION  
10283 DEUTERATION  
L4 17 L3 AND DEUTERATION

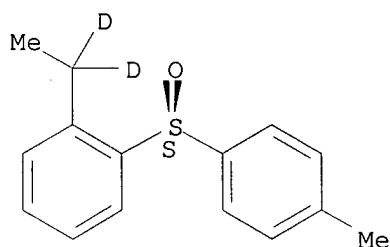
=> D L4 IBIB ABS HITSTR 1-17

L4 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2005:278402 CAPLUS  
DOCUMENT NUMBER: 144:150064  
TITLE: Highly Diastereoselective Deuteration of  
2-p-Tolylsulfinyl Ethylbenzene at Benzylic Position  
AUTHOR(S): Ruano, Jose L.; Aranda, M.  
CORPORATE SOURCE: Departamento de Quimica Organica, Universidad Autonoma  
de Madrid, Madrid, Spain  
SOURCE: Phosphorus, Sulfur and Silicon and the Related  
Elements (2005), 180(5-6), 1439-1440  
CODEN: PSSLEC; ISSN: 1042-6507  
PUBLISHER: Taylor & Francis, Inc.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 144:150064  
AB The lithium diisopropylamide-mediated deprotonation of the title compound, 1-ethyl-2-[(4-methylphenyl)sulfinyl]benzene and subsequent treatment with methanol (CH3OD) gave a single mono-deuterated isomer. Deprotonation of the corresponding (ethyl-d2)[(methylphenyl)sulfinyl]benzene gave a

diastereomer of opposite configuration. The deprotonation is diastereoselective, but the resulting carbanions are configurationally unstable and invert their configuration before reacting with an electrophile. A symposium report from the Twenty-First International Symposium on the Organic Sulfur (ISOCS-XXI).

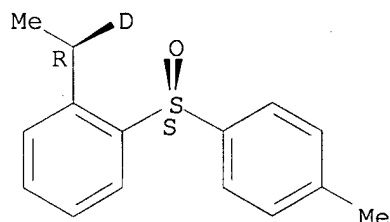
IT 873949-09-8P 873949-10-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (stereoselective de-deuteration and protonation of  
 (ethyl-d<sub>2</sub>)[(methylphenyl)sulfinyl]benzene at benzylic position)  
 RN 873949-09-8 CAPLUS  
 CN Benzene, 1-(ethyl-1,1-d<sub>2</sub>)-2-[(S)-(4-methylphenyl)sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



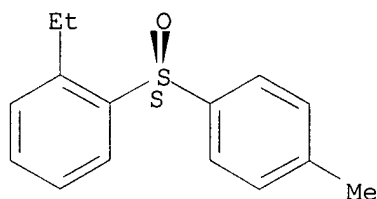
RN 873949-10-1 CAPLUS  
 CN Benzene, 1-[(1R)-ethyl-1-d]-2-[(S)-(4-methylphenyl)sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 302934-10-7  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (stereoselective deprotonation and deuteration of  
 ethyl[(methylphenyl)sulfinyl]benzene at benzylic position using  
 methanol (CH<sub>3</sub>OD) as reactant)  
 RN 302934-10-7 CAPLUS  
 CN Benzene, 1-ethyl-2-[(S)-(4-methylphenyl)sulfinyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 873949-08-7P

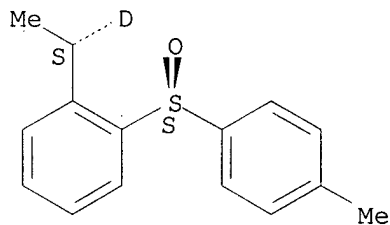
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(stereoselective deprotonation and deuteration of ethyl[(methylphenyl)sulfinyl]benzene at benzylic position using methanol (CH<sub>3</sub>OD) as reactant)

RN 873949-08-7 CAPLUS

CN Benzene, 1-[(1S)-ethyl-1-d]-2-[(S)-(4-methylphenyl)sulfinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:101109 CAPLUS

DOCUMENT NUMBER: 140:163571

TITLE: Process for preparation of deuterated aromatic compounds

INVENTOR(S): Ito, Nobuhiro; Maesawa, Tsuneaki; Muto, Kazushige; Hirota, Kosaku; Sajiki, Hironao

PATENT ASSIGNEE(S): Wako Pure Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 43 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004011400	A1	20040205	WO 2003-JP8783	20030710
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				

KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

CA 2493773 A1 20040205 CA 2003-2493773 20030710  
 AU 2003248267 A1 20040216 AU 2003-248267 20030710  
 EP 1535889 A1 20050601 EP 2003-771263 20030710

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK

CN 1675145 A 20050928 CN 2003-818820 20030710  
 US 20070255076 A1 20071101 US 2007-521531 20070222

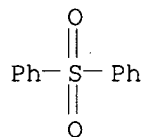
PRIORITY APPLN. INFO.: JP 2002-219005 A 20020726  
 WO 2003-JP8783 W 20030710

AB This invention pertains to a method for deuterating a compound having an aromatic ring in the presence of an activated catalyst. For example, phenol was treated with D2O in the presence of Pt/C to give C6D5OH in 98% deuterating rate. This invention provides a method to make deuterated aromatic compds. in mild conditions.

IT 127-63-9, Diphenylsulfone 139-66-2, Diphenyl sulfide  
 945-51-7, Diphenyl sulfoxide  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (preparation of deuterated aromatic compds.)

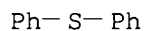
RN 127-63-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis- (CA INDEX NAME)



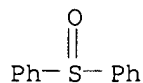
RN 139-66-2 CAPLUS

CN Benzene, 1,1'-thiobis- (CA INDEX NAME)



RN 945-51-7 CAPLUS

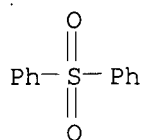
CN Benzene, 1,1'-sulfinylbis- (CA INDEX NAME)



IT 127-63-9DP, Diphenylsulfone, deuterated  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of deuterated aromatic compds.)

RN 127-63-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis- (CA INDEX NAME)



REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:850 CAPLUS

DOCUMENT NUMBER: 140:218345

TITLE: Phenylene ring dynamics in bisphenol-A-polysulfone by neutron scattering

AUTHOR(S): Arrese-Igor, S.; Arbe, A.; Alegria, A.; Colmenero, J.; Frick, B.

CORPORATE SOURCE: Departamento de Fisica de Materiales, UPV/EHU, San Sebastian, 20080, Spain

SOURCE: Journal of Chemical Physics (2004), 120(1), 423-436  
CODEN: JCPSA6; ISSN: 0021-9606

PUBLISHER: American Institute of Physics

DOCUMENT TYPE: Journal

LANGUAGE: English

AB We have investigated the dynamics of phenylene rings in a glassy polysulfone (bisphenol-A-polysulfone) by means of quasielastic neutron scattering. Nowadays it is well known that these mol. motions are directly connected with the mech. properties of engineering thermoplastics in general. The particular system investigated by us has the advantage that by selective deuteration of the Me groups, the neutron scattering measured is dominated by the incoherent contribution from the protons in the phenylene rings. In this way, the dynamics of such mol. groups can be exptl. isolated. Two different types of neutron spectrometers: time of flight and backscattering, were used in order to cover a wide dynamic range, which extends from microscopic (10<sup>-13</sup> s) to mesoscopic (10<sup>-9</sup> s) times. Moreover, neutron diffraction expts. with polarization anal. were also carried out in order to characterize the structural features of the sample investigated. Fast oscillations of increasing amplitude with temperature and  $\pi$ -flips are identified for phenylene rings motions. Due to the structural disorder characteristic of the amorphous state, both mol. motions display a broad distribution of relaxation times, which spreads over several orders of magnitude. Based on the results obtained, we propose a model for phenylene rings dynamics, which combines the two kinds of mol. motions identified. This model nicely describes the neutron scattering results in the whole dynamic range investigated.

IT 25135-51-7

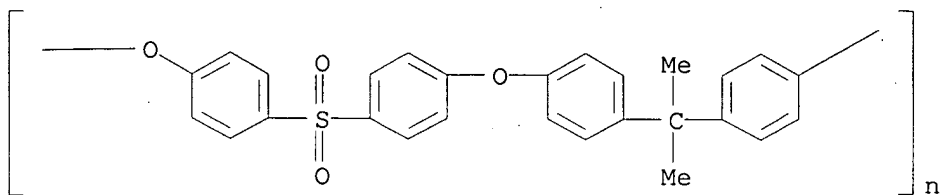
RL: PRP (Properties)

(phenylene ring dynamics in bisphenol-A-polysulfone by neutron scattering)

RN 25135-51-7 CAPLUS

CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] (CA INDEX NAME)





REFERENCE COUNT: 80 THERE ARE 80 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2003:190689 CAPLUS

DOCUMENT NUMBER: 139:100895

TITLE: Synthesis of deuterated 4,4'-diaminodiphenylsulfone (Dapsone) and related analogs

AUTHOR(S): Gannett, Peter M.; Johnson, Edward M., II; Grimes, Michael A.; Myers, Alan L.; Deavers, Robert E., III; Tracy, Timothy S.

CORPORATE SOURCE: Department of Basic Pharmaceutical Sciences, School of Pharmacy, West Virginia University, Morgantown, WV, 26506-9530, USA

SOURCE: Journal of Labelled Compounds & Radiopharmaceuticals (2003), 46(2), 107-114

CODEN: JLCRD4; ISSN: 0362-4803

PUBLISHER: John Wiley & Sons Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:100895

AB A general scheme for the synthesis of 4,4'-diaminodiphenylsulfone-d5 (Dapsone) from aniline-d5 is described. The method may have general application and the preparation of the related analogs, 4,4'-dimethylaminodiphenyl sulfone from aniline-d5 and 4,4'-dimethoxydiphenyl sulfone from phenol-d5, is also described.

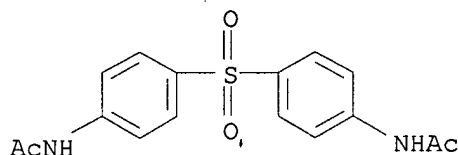
IT 77-46-3P 34049-42-8P 557794-37-3P  
557794-42-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(hydrolytic deprotection of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

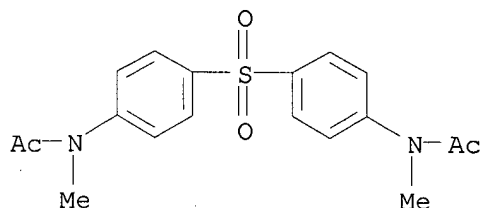
RN 77-46-3 CAPLUS

CN Acetamide, N,N'-(sulfonyldi-4,1-phenylene)bis- (CA INDEX NAME)



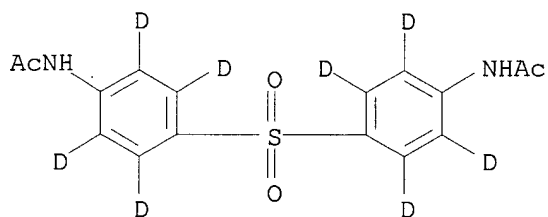
RN 34049-42-8 CAPLUS

CN Acetamide, N,N'-(sulfonyldi-4,1-phenylene)bis[N-methyl- (9CI) (CA INDEX NAME)



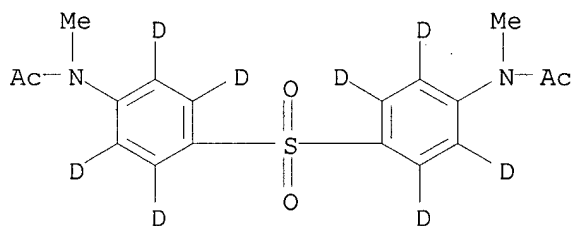
RN 557794-37-3 CAPLUS

CN Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis- (9CI) (CA INDEX NAME)



RN 557794-42-0 CAPLUS

CN Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis[N-methyl- (9CI) (CA INDEX NAME)]

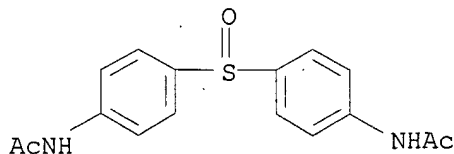
IT 5423-16-5P 557794-36-2P 557794-40-8P  
557794-41-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(oxidation of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

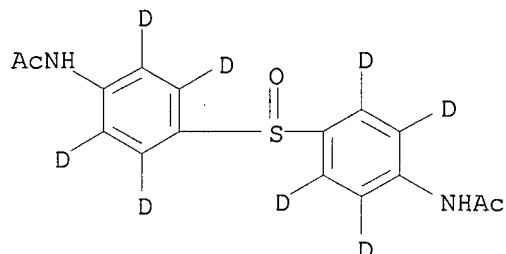
RN 5423-16-5 CAPLUS

CN Acetamide, N,N'-(sulfonyldi-4,1-phenylene)bis- (9CI) (CA INDEX NAME)



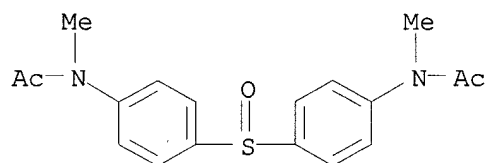
RN 557794-36-2 CAPLUS

CN Acetamide, N,N'-[sulfonyldi(4,1-phenylene-2,3,5,6-d4)]bis- (9CI) (CA INDEX NAME)



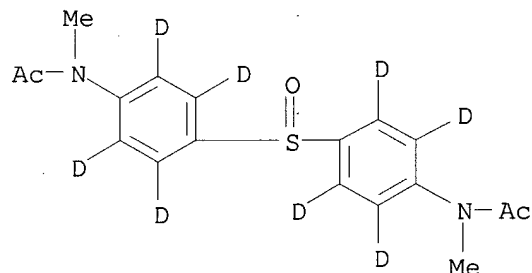
RN 557794-40-8 CAPLUS

CN Acetamide, N,N'-(sulfinyldi-4,1-phenylene)bis[N-methyl- (9CI) (CA INDEX NAME)]



RN 557794-41-9 CAPLUS

CN Acetamide, N,N'-[sulfinyldi(4,1-phenylene-2,3,5,6-d4)]bis[N-methyl- (9CI) (CA INDEX NAME)]

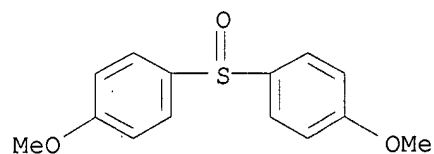


IT 1774-36-3P 557794-44-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(oxidation of; preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

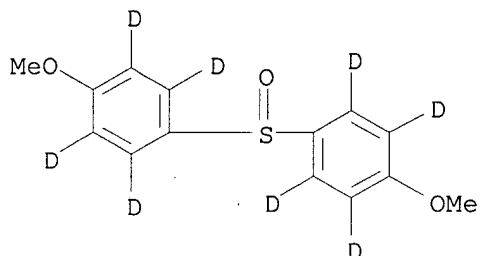
RN 1774-36-3 CAPLUS

CN Benzene, 1,1'-sulfinylbis[4-methoxy- (CA INDEX NAME)]



RN 557794-44-2 CAPLUS

CN Benzene-1,2,4,5-d4, 3,3'-sulfinylbis[6-methoxy- (9CI) (CA INDEX NAME)]



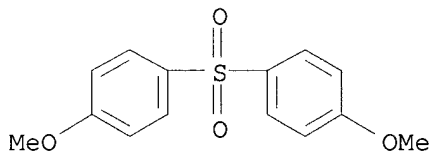
IT 3112-80-9P 557794-45-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

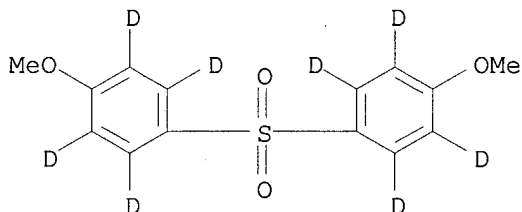
RN 3112-80-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis[4-methoxy- (CA INDEX NAME)



RN 557794-45-3 CAPLUS

CN Benzene-1,2,4,5-d4, 3,3'-sulfonylbis[6-methoxy- (9CI) (CA INDEX NAME)



IT 80-08-0P 7324-96-1P 557794-38-4P

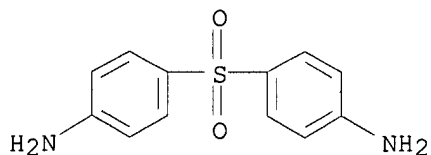
557794-43-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of deuterated diaminodiphenylsulfone and related analogs using deuterated aniline and phenol as starting compds.)

RN 80-08-0 CAPLUS

CN Benzenamine, 4,4'-sulfonylbis- (CA INDEX NAME)

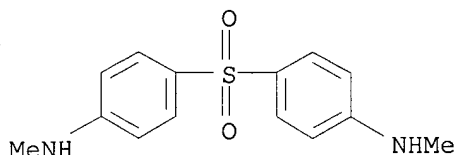


10/521,531

07/16/2008

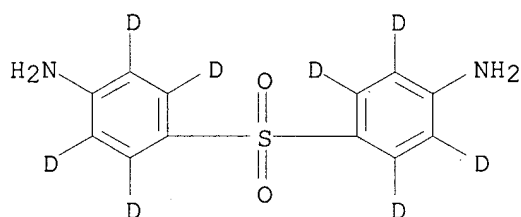
RN 7324-96-1 CAPLUS

CN Benzenamine, 4,4'-sulfonylbis[N-methyl- (CA INDEX NAME)



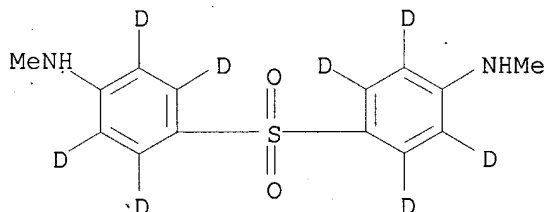
RN 557794-38-4 CAPLUS

CN Benzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis- (9CI) (CA INDEX NAME)



RN 557794-43-1 CAPLUS

CN Benzen-2,3,5,6-d4-amine, 4,4'-sulfonylbis[N-methyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:739026 CAPLUS

DOCUMENT NUMBER: 126:103660

ORIGINAL REFERENCE NO.: 126:19997a,20000a

TITLE: Magnesium methoxide complexation in the control of chemical reactions

AUTHOR(S): Baker, S. Richard; Cadman, Michael L. F.; Crombie, Leslie; Edwards, David A. V.; Mistry, Jayshree

CORPORATE SOURCE: Dep. Chem., Univ. Nottingham, Nottingham, NG7 2RD, UK  
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1996), (22), 2705-2713

CODEN: JCPRB4; ISSN: 0300-922X

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The insoly. of complex magnesium chelates makes experimentation difficult,

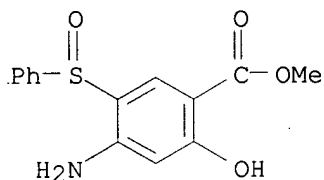
so smaller complexes were used as models for NMR and deuteration studies. Treatment of Me cyanoacetate with magnesium methoxide however did not give a simple chelate but a novel kinetic Claisen condensation product, Me 2,4-dicyano-3-hydroxy-2-butenolate, sequestered as its magnesium-derivative. Replacement of magnesium methoxide by the non-chelating base sodium methoxide gave the known thermodyn. 1,2-addition product, di-Me 3-amino-2-cyano-2-pentenedioate. A crossed Claisen product, di-Me 2-cyano-3-hydroxy-2-butenedioate, was obtained from di-Et oxalate and Me cyanoacetate in the presence of magnesium methoxide. However, replacement of the oxalate by Ph cyanomethyl sulfoxide gave a crossed 1,2-addition product, Me 3-amino-2-cyano-4-phenylsulfinyl-2-butenolate. Reactions between Ph cyanomethyl sulfoxide or phenylsulfinylacetone and Me 2-methoxymethyleneacetoacetate were carried out in the presence of varying amts. of sodium and magnesium methoxides. The products were pyrones, pyridones and aminobenzoates. When sodium methoxide was used in the phenylsulfinylacetone reaction the major product was a pyridine, but with magnesium methoxide it was a hydroxyaminobenzoate. This dichotomy was explained as a consequence of magnesium complexation by the substrate.

IT 186047-34-7P 186047-36-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(magnesium methoxide complexation in control of chemical reactions)

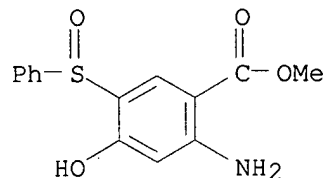
RN 186047-34-7 CAPLUS

CN Benzoic acid, 4-amino-2-hydroxy-5-(phenylsulfinyl)-, methyl ester (CA INDEX NAME)



RN 186047-36-9 CAPLUS

CN Benzoic acid, 2-amino-4-hydroxy-5-(phenylsulfinyl)-, methyl ester (CA INDEX NAME)



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1992:235372 CAPLUS

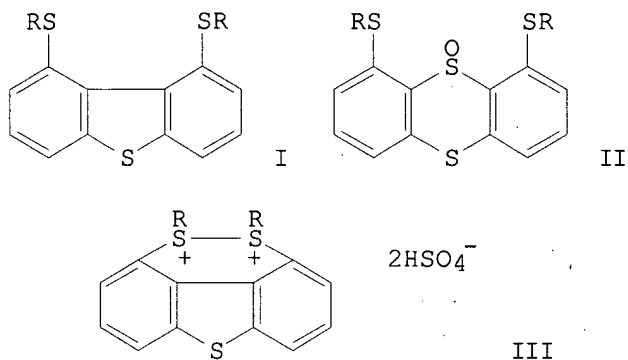
DOCUMENT NUMBER: 116:235372

ORIGINAL REFERENCE NO.: 116:39860h,39861a

TITLE: Generation of new dithia dications from sterically congested 1,9-dithiodibenzothiophenes and their monooxides in concentrated sulfuric acid

AUTHOR(S): Furukawa, Naomichi; Kimura, Takeshi; Horie, Yoji;

CORPORATE SOURCE: Ogawa, Satoshi; Fujihara, Hisashi  
 SOURCE: Dep. Chem., Univ. Tsukuba, Tsukuba, 305, Japan  
 Tetrahedron Letters (1992), 33(11), 1489-90  
 CODEN: TELEAY; ISSN: 0040-4039  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 GI



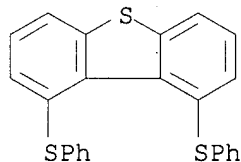
AB 1,9-Dithiodibenzothiophenes I (R = Me, Ph) were prepared by ring contraction of 4,6-dithiothianthrene-5-oxides II with n-butyllithium. I and their monooxides upon dissoln. in concentrate H<sub>2</sub>SO<sub>4</sub> afforded the corresponding new dithia dications III. Electrochem. oxidation of I provides the evidence for the neighboring group interaction between the two 1,9-sulfenyl sulfur atoms.

IT 135489-49-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and oxidation of)

RN 135489-49-5 CAPLUS

CN Dibenzothiophene, 1,9-bis(phenylthio)- (CA INDEX NAME)

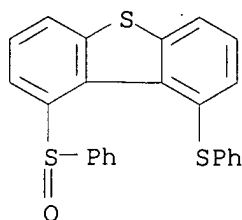


IT 140868-26-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)

RN 140868-26-4 CAPLUS

CN Dibenzothiophene, 1-(phenylsulfinyl)-9-(phenylthio)- (CA INDEX NAME)

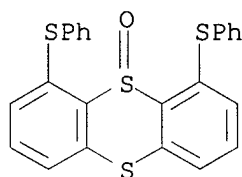


IT 135489-37-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(ring contraction of)

RN 135489-37-1 CAPLUS

CN Thianthrene, 1,9-bis(phenylthio)-, 10-oxide (CA INDEX NAME)



L4 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:248061 CAPLUS

DOCUMENT NUMBER: 114:248061

ORIGINAL REFERENCE NO.: 114:41911a,41914a

TITLE: Aromatic polysulfones bearing functional groups

INVENTOR(S): Guiver, Michael D.; Kutowy, Oleh

PATENT ASSIGNEE(S): National Research Council of Canada, Can.

SOURCE: U.S., 9 pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4999415	A	19910312	US 1988-281042	19881207
CA 1304537	C	19920630	CA 1987-554119	19871211
PRIORITY APPLN. INFO.:			CA 1987-554119	A 19871211

AB The title compds. are prepared by halogenating aromatic polysulfones, lithiating the halogenated polymers, and treating with electrophiles. Thus, an aromatic polysulfone (Udel) was brominated, lithiated with BuLi, and treated with D2O to give a deuterated polymer.

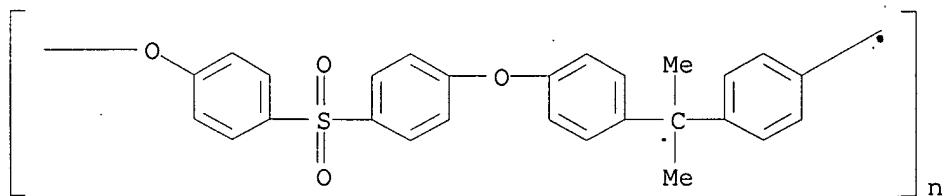
IT 25135-51-7DP, deuterated, carboxylated and methylated  
25154-01-2DP, derivs. 25608-64-4DP, derivs.  
25839-81-0P

RL: IMF (Industrial manufacture); PREP (Preparation)  
(manufacture of, by halogenation-lithiation)

RN 25135-51-7 CAPLUS

CN Poly[oxy-1,4-phenylenesulfonyl-1,4-phenyleneoxy-1,4-phenylene(1-methylethylidene)-1,4-phenylene] (CA INDEX NAME)





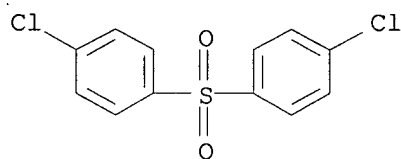
RN 25154-01-2 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 1,1'-sulfonylbis[4-chlorobenzene] (CA INDEX NAME)

CM 1

CRN 80-07-9

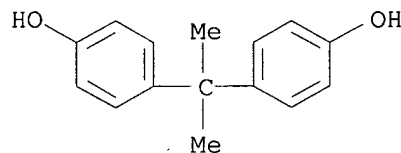
CMF C12 H8 C12 O2 S



CM 2

CRN 80-05-7

CMF C15 H16 O2



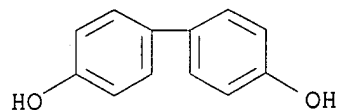
RN 25608-64-4 CAPLUS

CN [1,1'-Biphenyl]-4,4'-diol, polymer with 1,1'-sulfonylbis[4-chlorobenzene] (CA INDEX NAME)

CM 1

CRN 92-88-6

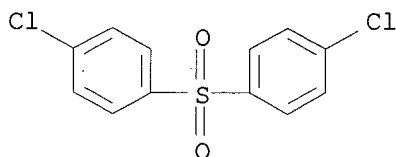
CMF C12 H10 O2



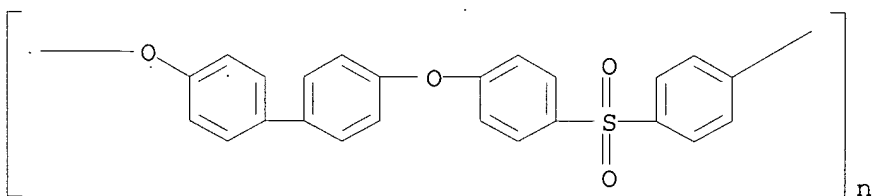
CM 2

CRN 80-07-9

CMF C12 H8 C12 O2 S



RN 25839-81-0 CAPLUS

CN Poly(oxy[1,1'-biphenyl]-4,4'-diyloxy-1,4-phenylenesulfonyl-1,4-phenylene)  
(CA INDEX NAME)

L4 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:139357 CAPLUS

DOCUMENT NUMBER: 112:139357

ORIGINAL REFERENCE NO.: 112:23563a,23566a

TITLE: Diastereotopic group selective reactions at  $\pi$ -arene chromium derivatives: deprotonation and nucleophilic addition reactions of substrates bearing benzylic chiral centers

AUTHOR(S): Heppert, Joseph A.; Aube, Jeffrey; Thomas-Miller, M. Elizabeth; Milligan, Michael L.; Takusagawa, Fusao

CORPORATE SOURCE: Dep. Chem. Med. Chem., Univ. Kansas, Lawrence, KS, 66045, USA

SOURCE: Organometallics (1990), 9(3), 727-39

CODEN: ORGND7; ISSN: 0276-7333

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 112:139357

AB ( $\eta^6$ -(MeHXC)C<sub>6</sub>H<sub>5</sub>)Cr(CO)<sub>3</sub> (X = NMe<sub>2</sub>, alkoxy) substrates undergo deprotonation by alkyllithium bases to produce, after quenching with electrophiles (E<sup>+</sup>), high diastereomeric excesses (de) of ( $\eta^6$ -o-E(MeHXC)C<sub>6</sub>H<sub>4</sub>)Cr(CO)<sub>3</sub> products. The N,N-dimethylamino substrate shows excellent chemoselectivity for ortho metalation, in addition to having  $\geq 96\%$  de in the formation of the product isomers. The propensity for ether derivs. to undergo benzylic deprotonation interferes with chemoselectivity in these substrates, although the selectivity for ortho substitution can be improved by employing chelating ether substituents and reduced reaction temps. The stereochem. of deprotonation is evidently controlled by the tendency of the heteroarom side chain to adopt a conformation that minimizes steric interactions with the Cr(CO)<sub>3</sub> moiety and promotes the delivery of the ligated base to a specific ortho hydrogen. NOEDS studies indicate that the conformation of the benzylic side chain in the solns. containing only ( $\eta^6$ -(MeHXC)C<sub>6</sub>H<sub>5</sub>)Cr(CO)<sub>3</sub> probably closely mirrors those involved in the delivery of the alkyllithium

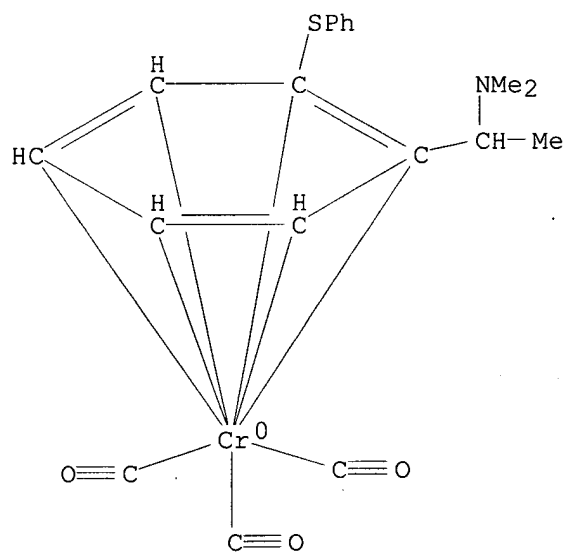
reagent. Reactions between  $(\eta\text{-(MeH(RO)C)C}_6\text{H}_5)\text{Cr(CO)}_3$  and  $\text{Me}_3\text{CLi}$  in  $\text{Et}_2\text{O}$  produced significant quantities of  $(\eta^4, \eta^2\text{-2-tert-butylcyclohexadiene-exo-1-ethene})\text{chromium tricarboxyl}$  after the mixture is quenched with a proton donor. The reaction displayed a peculiar temperature dependence, with an approx. 1:1 ratio of the  $S^*, S^*, R^*$  and  $S^*, S^*, S^*$  diastereomers being produced if the quench is performed below  $-40^\circ$  and a 10:1 ratio of the  $S^*, S^*, R^*$  and  $S^*, S^*, S^*$  isomers, resp., being produced by quenching the reaction at an ambient temperature. An x-ray crystallog. study unambiguously identified the mol. formed in predominance at elevated temps. as the  $S^*, S^*, R^*$  exo-ethene Z isomer. The crystal structure of  $[\eta^6\text{-(R}^*, \text{R}^*)\text{-o-(Ph}_2\text{P) (MeH(Me}_2\text{N)C)C}_6\text{H}_4]\text{Cr(CO)}_3$  was also determined

IT 125453-51-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 125453-51-2 CAPLUS

CN Chromium, tricarbonyl[(1,2,3,4,5,6- $\eta$ )-N,N, $\alpha$ -trimethyl-2-(phenylthio)benzenemethanamine]-, stereoisomer (9CI) (CA INDEX NAME)



L4 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:94533 CAPLUS

DOCUMENT NUMBER: 108:94533

ORIGINAL REFERENCE NO.: 108:15551a,15554a

TITLE: A new rigid sulfur-bridged dithiametacyclophane and its acyclic analogs: direct observation of the transannular bond formation between the three sulfur atoms and isolation of dicationic salts

AUTHOR(S): Fujihara, Hisashi; Chiu, Jer Jye; Furukawa, Naomichi  
CORPORATE SOURCE: Dep. Chem., Univ. Tsukuba, Ibaraki, 305, Japan  
SOURCE: Journal of the American Chemical Society (1988), 110(4), 1280-4

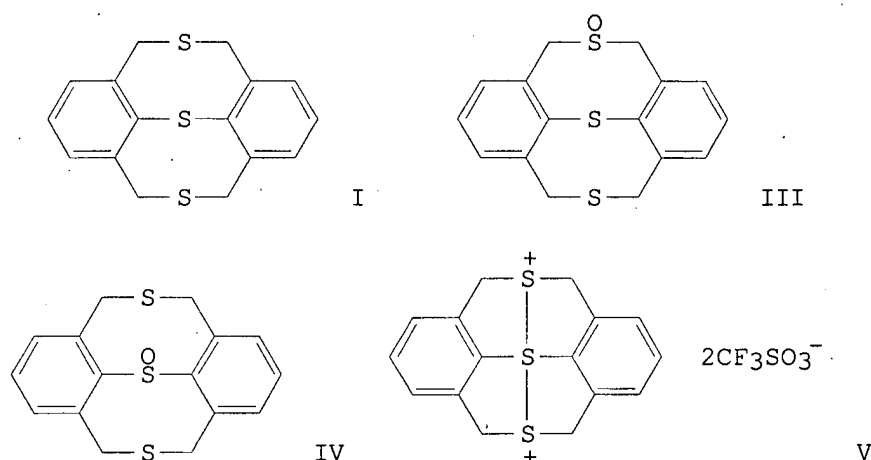
CODEN: JACSAT; ISSN: 0002-7863

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:94533

GI



AB A new rigid S-bridged dithiametacyclophane, (methanothiomethano)dibenzodithiociin (I), analogous to acyclic trithia compds., e.g., 2,6-(MeS)2C6H3SPh (II), and its isomeric sulfoxides III and IV were prepared by general methods. The transannular bond formation between the 3 S atoms of I was observed by both <sup>1</sup>H and <sup>13</sup>C NMR spectroscopy on treating I with concentrated H<sub>2</sub>SO<sub>4</sub>.

Similar bond formation was also observed for III and IV. A new type of O transfer reaction via the dication of I occurred during H<sub>2</sub>SO<sub>4</sub> hydrolysis of I and IV. The dicationic salt V was obtained by treating the sulfoxide IV with (CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>O. Evidence for intramol. S-S interaction between the 3 S atoms of II was found in the reactions of its sulfoxides, e.g., 2,6-(MeS)2C6H3SOPh, with concentrated H<sub>2</sub>SO<sub>4</sub>. Electrochem. oxidation of II and mono

and dithio ethers was studied by using cyclic voltammetry. Anodic oxidation of II was 400 mV easier than that of monothia compds. such as Ph<sub>2</sub>S because of the intramol. interaction between the three S atoms in II.

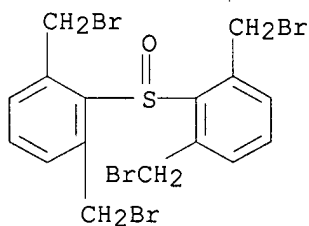
IT 112399-11-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclocondensation of, with sodium sulfide)

RN 112399-11-8 CAPLUS

CN Benzene, 1,1'-sulfinylbis[2,6-bis(bromomethyl)- (9CI) (CA INDEX NAME)



IT 108428-24-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

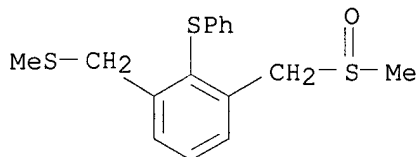
10/521,531

07/16/2008

(preparation and deuteration of)

RN 108428-24-6 CAPLUS

CN Benzene, 1-[(methylsulfinyl)methyl]-3-[(methylthio)methyl]-2-(phenylthio)-  
(CA INDEX NAME)



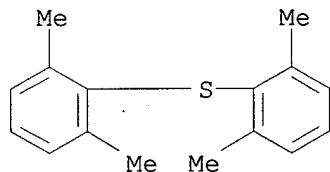
IT 52805-90-0P 54088-93-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and photochem. bromination of)

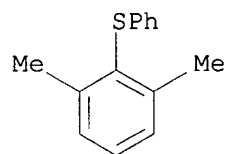
RN 52805-90-0 CAPLUS

CN Benzene, 1,1'-thiobis[2,6-dimethyl- (9CI) (CA INDEX NAME)



RN 54088-93-6 CAPLUS

CN Benzene, 1,3-dimethyl-2-(phenylthio)- (CA INDEX NAME)



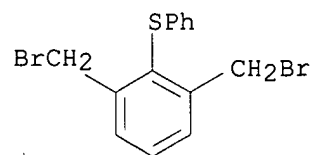
IT 112399-12-9P 112399-13-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(preparation and substitution reaction of, with methanethiolate)

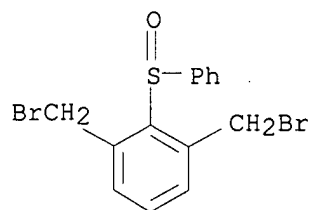
RN 112399-12-9 CAPLUS

CN Benzene, 1,3-bis(bromomethyl)-2-(phenylthio)- (CA INDEX NAME)

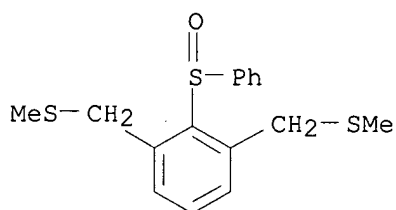


RN 112399-13-0 CAPLUS

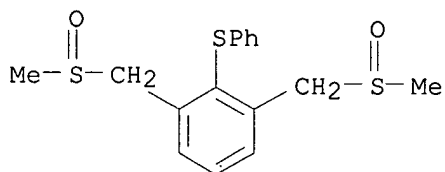
CN Benzene, 1,3-bis(bromomethyl)-2-(phenylsulfinyl)- (CA INDEX NAME)



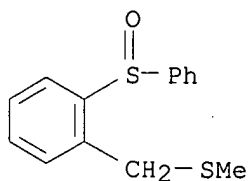
IT 108428-23-5P 108428-25-7P 112335-85-0P  
 112399-06-1P 112399-07-2P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 108428-23-5 CAPLUS  
 CN Benzene, 1,3-bis[(methylthio)methyl]-2-(phenylsulfinyl)- (CA INDEX NAME)



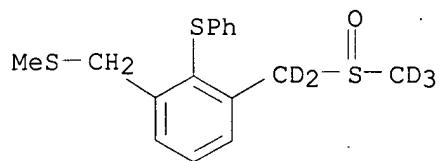
RN 108428-25-7 CAPLUS  
 CN Benzene, 1,3-bis[(methylsulfinyl)methyl]-2-(phenylthio)- (CA INDEX NAME)



RN 112335-85-0 CAPLUS  
 CN Benzene, 1-[(methylthio)methyl]-2-(phenylsulfinyl)- (CA INDEX NAME)

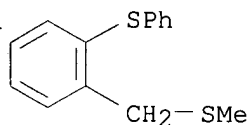


RN 112399-06-1 CAPLUS  
 CN Benzene, 1-[(methyl-d3-sulfinyl)methyl-d2]-3-[(methylthio)methyl]-2-(phenylthio)- (9CI) (CA INDEX NAME)



RN 112399-07-2 CAPLUS

CN Benzene, 1-[(methylthio)methyl]-2-(phenylthio)- (CA INDEX NAME)

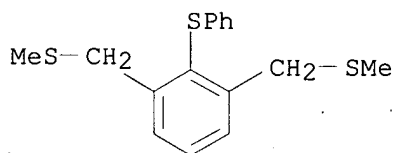


IT 108428-22-4P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation, cyclic voltammetry, and chloroperbenzoate oxidation of)

RN 108428-22-4 CAPLUS

CN Benzene, 1,3-bis[(methylthio)methyl]-2-(phenylthio)- (CA INDEX NAME)

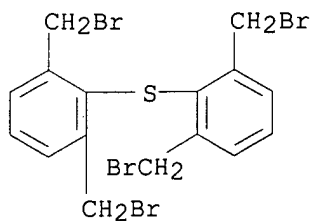


IT 112399-10-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation, oxidation, and cyclocondensation of, with sodium sulfide)

RN 112399-10-7 CAPLUS

CN Benzene, 1,1'-thiobis[2,6-bis(bromomethyl)- (9CI) (CA INDEX NAME)

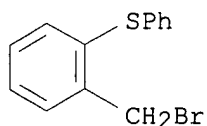


IT 37660-43-8

RL: RCT (Reactant); RACT (Reactant or reagent)  
(substitution reaction of, with methanethiolate)

RN 37660-43-8 CAPLUS

CN Benzene, 1-(bromomethyl)-2-(phenylthio)- (CA INDEX NAME)



L4 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:37295 CAPLUS

DOCUMENT NUMBER: 108:37295

ORIGINAL REFERENCE NO.: 108:6219a,6222a

TITLE: Synthesis of benzalchloroimine-1-d by umpolung and catalytic decomposition of benzalchloroimine

AUTHOR(S): Zhang, Jingliu

CORPORATE SOURCE: Dep. Chem., Fujian Norm. Univ., Fuzhou, Peop. Rep. China

SOURCE: Gaodeng Xuexiao Huaxue Xuebao (1987), 8(3), 246-8  
CODEN: KTHPDM; ISSN: 0251-0790

DOCUMENT TYPE: Journal

LANGUAGE: Chinese

OTHER SOURCE(S): CASREACT 108:37295

AB A simple preparative method of benzalchloroimine-1-d was reported. The kinetic study on the reaction of RC<sub>6</sub>H<sub>4</sub>CH:NCl (R = H, 4-Me, 4-MeO, 4-Cl) with Ph<sub>2</sub>S in benzene has been carried out. On the basis of the Hammett  $\rho$  value and the kinetic isotope effect, the mechanism of the reaction was discussed.

IT 139-66-2, Diphenylsulfide

RL: RCT (Reactant); RACT (Reactant or reagent)

(decomposition by, of benzalchloroimine, kinetics of)

RN 139-66-2 CAPLUS

CN Benzene, 1,1'-thiobis- (CA INDEX NAME)

Ph-S-Ph

L4 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:6760 CAPLUS

DOCUMENT NUMBER: 108:6760

ORIGINAL REFERENCE NO.: 108:1273a,1276a

TITLE: Synthesis and characterization of deuterated poly(arylene ether sulfones)

AUTHOR(S): Hedrick, J. L.; Dumais, J. J.; Jelinski, L. W.; Patsiga, R. A.; McGrath, J. E.

CORPORATE SOURCE: Almaden Res. Cent., IBM, San Jose, CA, 95120-6099, USA

SOURCE: Journal of Polymer Science, Part A: Polymer Chemistry (1987), 25(8), 2289-300

CODEN: JPACEC; ISSN: 0887-624X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Selectively deuterated poly(arylene ether sulfones) were prepared for neutron scattering studies and for deuterium NMR investigations. The availability of these model macromols. permitted mol.-level identification of the motions responsible for the low-temperature relaxations that were observed

in the dynamic mech. spectra of these engineering polymers. Three labeled sites on the appropriate monomers (bisphenol A and 4,4'-dichlorodiphenyl



sulfone) were prepared from deuterated intermediates and characterized via chromatog., spectroscopic, and thermal analyses. The deuterium exchange between Me and aromatic sites that occurred during synthesis was quantified. These labeled monomers were mixed with hydrogenous monomers to synthesize the high-mol.-weight title polymer. A synthetic technique involving N-methyl-2-pyrrolidone/K<sub>2</sub>CO<sub>3</sub> was employed to afford high-mol.-weight polymers. The polymers were characterized by Fourier-transform IR, proton, carbon, and deuterium NMR, intrinsic viscosities, and thermal anal. Mol. wts. of the labeled polymers were similar to unlabeled systems.

IT 41209-98-7DP, Bisphenol A-4,4'-difluorodiphenylsulfone copolymer, deuterated 92739-59-8P 111938-15-9P

RL: PREP (Preparation)

(preparation and characterization of)

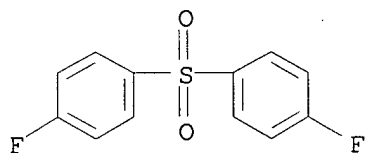
RN 41209-98-7 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 1,1'-sulfonylbis[4-fluorobenzene] (CA INDEX NAME)

CM 1

CRN 383-29-9

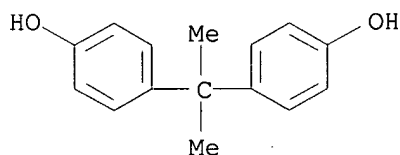
CMF C12 H8 F2 O2 S



CM 2

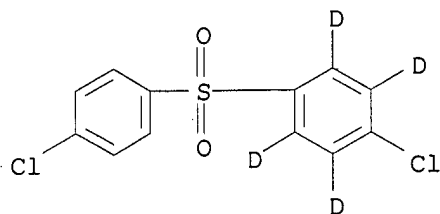
CRN 80-05-7

CMF C15 H16 O2



RN 92739-59-8 CAPLUS

CN Benzene-1,2,4,5-d<sub>4</sub>, 3-chloro-6-[(4-chlorophenyl)sulfonyl]- (9CI) (CA INDEX NAME)



10/521,531

07/16/2008

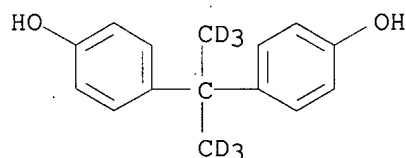
RN 111938-15-9 CAPLUS

CN Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 4,4'-[1-(methyl-d3)ethylidene-2,2,2-d3]bis[phenol] and 1,1'-sulfonylbis[4-fluorobenzene] (9CI) (CA INDEX NAME)

CM 1

CRN 86588-58-1

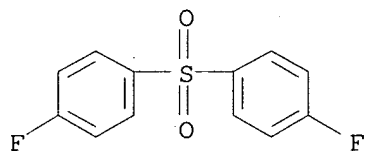
CMF C15 H10 D6 O2



CM 2

CRN 383-29-9

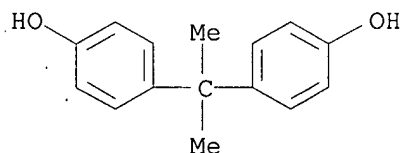
CMF C12 H8 F2 O2 S



CM 3

CRN 80-05-7

CMF C15 H16 O2



L4 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1985:405793 CAPLUS

DOCUMENT NUMBER: 103:5793

ORIGINAL REFERENCE NO.: 103:1043a,1046a

TITLE: Collision-induced dissociation of negative ions in the gas phase: [aryl sulfide]-, [aryl sulfinyl]- and [aryl sulfonyl]-

AUTHOR(S): Bowie, John H.; Stringer, Michael B.

CORPORATE SOURCE: Dep. Org. Chem., Univ. Adelaide, Adelaide, 5001, Australia

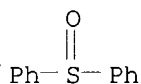
SOURCE: Organic Mass Spectrometry (1985), 20(2), 138-42  
CODEN: ORMSBG; ISSN: 0030-493X

DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 103:5793

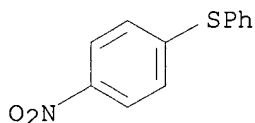
AB In this abstract R = aryl. The collision-induced dissociation of RS- are complex and occur without prior ring H scrambling (e.g., PhS- gives C2HS- and HS- while p-CD3C6H4S- gives C6H4S-•, CD3C4S-, and C2HS-). In contrast, all decompns. of PhCH2S- are preceded by sp. benzylic and Ph group H interchange reactions. RS(O)- and RSO2- ions rearrange. PhS(O)- gives PhO- and PhS-; PhSO2- gives PhO-. PhCH2SO- is dehydrated following benzylic and Ph group H exchange.

IT 945-51-7 952-97-6 4171-83-9  
 RL: PRP (Properties)  
 (collision induced mass spectrum of)

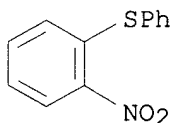
RN 945-51-7 CAPLUS  
 CN Benzene, 1,1'-sulfinylbis- (CA INDEX NAME)



RN 952-97-6 CAPLUS  
 CN Benzene, 1-nitro-4-(phenylthio)- (CA INDEX NAME)



RN 4171-83-9 CAPLUS  
 CN Benzene, 1-nitro-2-(phenylthio)- (CA INDEX NAME)



L4 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1982:405764 CAPLUS  
 DOCUMENT NUMBER: 97:5764  
 ORIGINAL REFERENCE NO.: 97:1119a,1122a  
 TITLE: A ready access to [1,1-D2] primary alcohols  
 AUTHOR(S): Badet, Bernard; Julia, Marc; Sarrazin, Claire Anne  
 CORPORATE SOURCE: Lab. Chim., Ec. Norm. Super., Paris, 75231/05, Fr.  
 SOURCE: Bulletin de la Societe Chimique de France (1982),  
 (1-2, Pt. 2), 33-6  
 CODEN: BSCFAS; ISSN: 0037-8968

DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB RCH2S+R12 X- [R = Pr, n-hexyl, n-heptyl, n-nonyl, p-MeOC6H4CH2, CMe2:CH, CMe2:CH(CH2)2CMe:CH, etc.; R1 = Ph, n-dodecyl, Me; X = ClO4, BF4, Cr(SCN)4(NH3)2], prepared from RCH2OH and R21S, were deuterated with

NaOD-D2O and the resultant RCD2S+R21X- were treated with AcOK to give RCD2OAc, which on alkaline hydrolysis gave RCD2OH.

IT 10504-66-2P 77381-66-9P 82054-23-7P  
82054-25-9P 82054-27-1P 82054-29-3P  
82054-43-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and deuteration of)

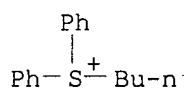
RN 10504-66-2 CAPLUS

CN Sulfonium, butyldiphenyl-, perchlorate (1:1) (CA INDEX NAME)

CM 1

CRN 29245-65-6

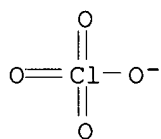
CMF C16 H19 S



CM 2

CRN 14797-73-0

CMF Cl O4



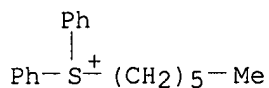
RN 77381-66-9 CAPLUS

CN Sulfonium, hexyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 46971-37-3

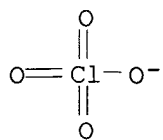
CMF C18 H23 S



CM 2

CRN 14797-73-0

CMF Cl O4



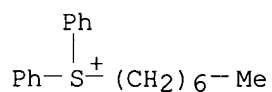
RN 82054-23-7 CAPLUS

CN Sulfonium, heptyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-22-6

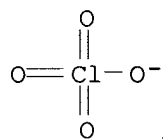
CMF C19 H25 S



CM 2

CRN 14797-73-0

CMF Cl O4



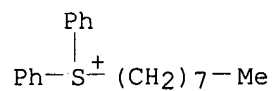
RN 82054-25-9 CAPLUS

CN Sulfonium, octyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-24-8

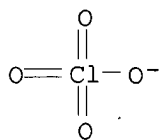
CMF C20 H27 S



CM 2

CRN 14797-73-0

CMF Cl O4



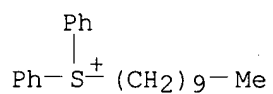
RN 82054-27-1 CAPLUS

CN Sulfonium, decyldiphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-26-0

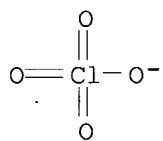
CMF C22 H31 S



CM 2

CRN 14797-73-0

CMF Cl O4



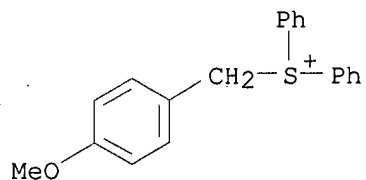
RN 82054-29-3 CAPLUS

CN Sulfonium, [(4-methoxyphenyl)methyl]diphenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 82054-28-2

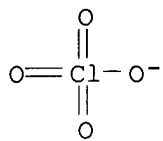
CMF C20 H19 O S



CM 2

CRN 14797-73-0

CMF Cl O4



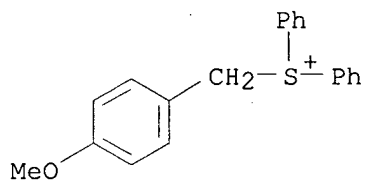
RN 82054-43-1 CAPLUS

CN Sulfonium, [(4-methoxyphenyl)methyl]diphenyl-, (OC-6-11)-  
diamminetetakis(thiocyanato-N)chromate(1-) (9CI) (CA INDEX NAME)

CM 1

CRN 82054-28-2

CMF C20 H19 O S

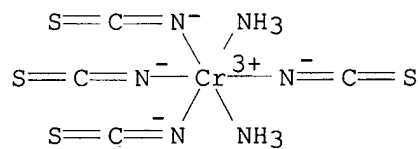


CM 2

CRN 16248-93-4

CMF C4 H6 Cr N6 S4

CCI CCS



IT 139-66-2

RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, with alcs.)

RN 139-66-2 CAPLUS

CN Benzene, 1,1'-thiobis- (CA INDEX NAME)

Ph-S-Ph

L4 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:52216 CAPLUS

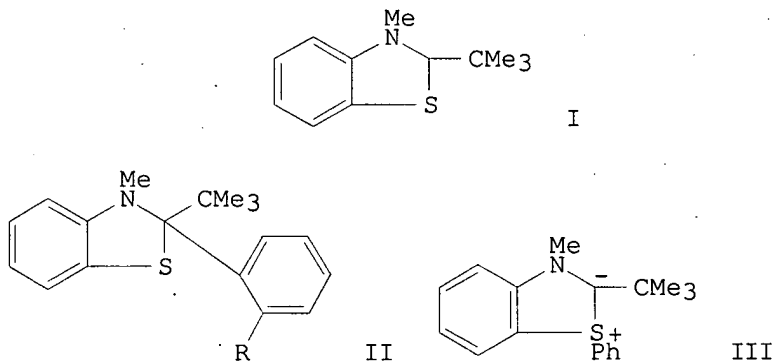
DOCUMENT NUMBER: 96:52216

ORIGINAL REFERENCE NO.: 96:8601a,8604a

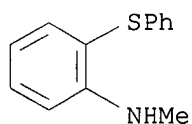
TITLE: Reaction of benzothiazoline with benzyne. Generation  
of the novel heterocyclic sulfur ylide,  
benzothiazolinium S-ylide

AUTHOR(S): Hori, Mikio; Kataoka, Tadashi; Shimizu, Hiroshi; Ueda,

CORPORATE SOURCE: Norihiro  
 SOURCE: Gifu Coll. Pharm., Gifu, 502, Japan  
 Tetrahedron Letters (1981), 22(32), 3071-4  
 CODEN: TELEAY; ISSN: 0040-4039  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 96:52216  
 GI

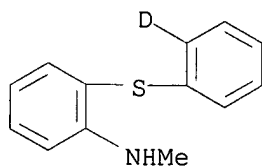


AB Reaction of the benzothiazoline I with benzyne, formed by treatment of o-BrC<sub>6</sub>H<sub>4</sub>F with Mg (room temperature, 4 h, THF), gave the benzothiazolines II (R = H, F) (34, 31%, resp.) and 18% o-PhSC<sub>6</sub>H<sub>4</sub>NHMe. The mechanism involved the formation of the heterocyclic S ylide III, which underwent a 1,2-intermol. shift to give II (R = H).  
 IT 54287-73-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation and reaction of, with benzyne)  
 RN 54287-73-9 CAPLUS  
 CN Benzenamine, N-methyl-2-(phenylthio)- (CA INDEX NAME)



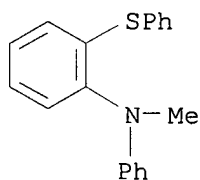
IT 80335-41-7P 80335-44-0P 80335-45-1P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (preparation of)  
 RN 80335-41-7 CAPLUS  
 CN Benzenamine, N-methyl-2-(phenyl-2-d-thio)- (9CI) (CA INDEX NAME)





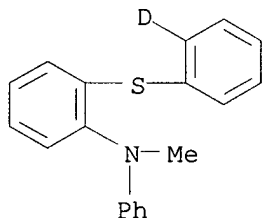
RN 80335-44-0 CAPLUS

CN Benzenamine, N-methyl-N-phenyl-2-(phenylthio)- (CA INDEX NAME)



RN 80335-45-1 CAPLUS

CN Benzenamine, N-methyl-N-phenyl-2-(phenyl-2-d-thio)- (9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:94130 CAPLUS

DOCUMENT NUMBER: 92:94130

ORIGINAL REFERENCE NO.: 92:15377a,15380a

TITLE: Arynic condensations of ketone enolates. 15. New synthetic applications of the condensation of  $\alpha,\beta$ -unsaturated ketone enolates on benzyne

AUTHOR(S): Essiz, Munir; Guillaumet, Gerald; Brunet, Jean Jacques; Caubere, Paul

CORPORATE SOURCE: Lab. Chim. Org. I, Univ. Nancy I, Nancy, 54037, Fr.

SOURCE: Journal of Organic Chemistry (1980), 45(2), 240-6

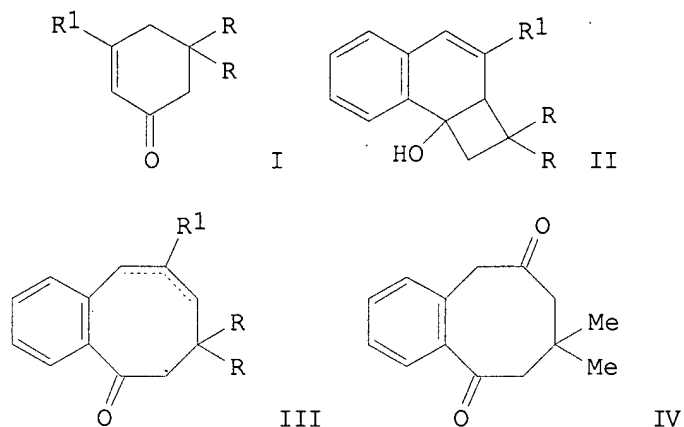
CODEN: JOCEAH; ISSN: 0022-3263

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 92:94130

GI



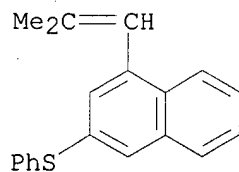
AB Arynic condensations of both cyclic and acyclic  $\alpha,\beta$ -unsatd. ketone enolates were studied. Condensation of substituted cyclohexenone I (e.g., R = H, Me; R1 = Me, CHMe2, Ph, PhO, 4-FC6H4O, EtS, PhS, 4-MeOC6H4S) enolates with benzyne gave a new class of cyclobutanols II. Ring opening of II under basic conditions was a good method of preparing benzocyclooctadienones III ( $\Delta^8$ ) and III ( $\Delta^9$ ) and, in appropriate cases, benzocyclooctenediones IV. Thermal dehydration of II gave 1,3-disubstituted naphthalenes in good yields. Condensation of a few acyclic  $\alpha,\beta$ -unsatd. ketone enolates with benzyne are of synthetic usefulness; depending on the substituents on both sides of the carbonyl group, these condensations may lead either to substituted naphthalenes or to Ph ketones or tetralones.

IT 72035-89-3P 72035-90-6P 72035-99-5P  
72036-00-1P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

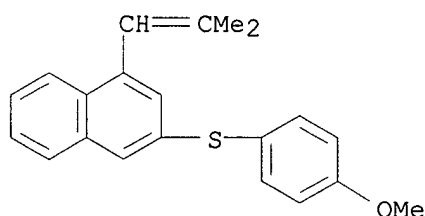
RN 72035-89-3 CAPLUS

CN Naphthalene, 1-(2-methyl-1-propenyl)-3-(phenylthio)- (9CI) (CA INDEX NAME)



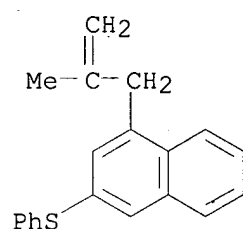
RN 72035-90-6 CAPLUS

CN Naphthalene, 3-[(4-methoxyphenyl)thio]-1-(2-methyl-1-propenyl)- (9CI) (CA INDEX NAME)



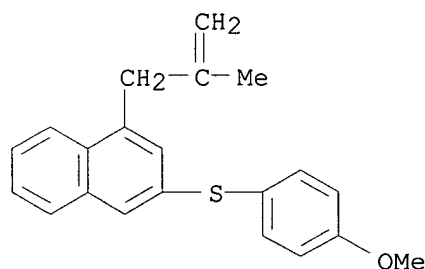
RN 72035-99-5 CAPLUS

CN Naphthalene, 1-(2-methyl-2-propenyl)-3-(phenylthio)- (9CI) (CA INDEX NAME)



RN 72036-00-1 CAPLUS

CN Naphthalene, 3-[(4-methoxyphenyl)thio]-1-(2-methyl-2-propenyl)- (9CI) (CA INDEX NAME)



L4 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1978:6064 CAPLUS

DOCUMENT NUMBER: 88:6064

ORIGINAL REFERENCE NO.: 88:1029a,1032a

TITLE: Hydrochloric acid and hydrobromic acid complexes with oxygen bases

AUTHOR(S): Rospenk, M.; Koll, A.; Sobczyk, L.

CORPORATE SOURCE: Inst. Chem., Univ. Wroclaw, Wroclaw, Pol.

SOURCE: Advances in Molecular Relaxation and Interaction Processes (1977), 11(1-2), 129-42  
CODEN: AMRPDF; ISSN: 0378-4487

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The formation consts., IR, and dipole moments of HCl complexes with sulfoxides, phosphine oxides, or N-oxides are observed in CCl<sub>4</sub>. The low formation consts. are due to an entropy effect related to the free

rotation of HCl mols. in CCl<sub>4</sub>. A plot of H-bond polarity vs. oxide basicity exhibits an inversion range in which a sharp increase in the dipole moment occurs due to the proton transfer equilibrium. Complexes from the inversion range exhibit continuous IR absorption at 600-3000 cm<sup>-1</sup> due to the overlap of 2 very broad absorptions which are shaped by the coupling with internal modes. The continuum on deuteration exhibits a narrowing at both the low and high frequency sides due to the decrease in the tunneling probability and the isotope effect ( $\gamma_{\text{HCl}}/\gamma_{\text{DCl}}$  1.30) on the protonic stretching vibration, resp. A plot of the X→O (X = N, S, P) stretching vibration shifts vs. the basicity of the oxides is similar to the H bond polarity curve. The oxide complexes with HBr in CCl<sub>4</sub> are also discussed.

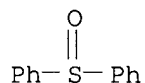
IT 26394-13-8 64990-52-9

RL: PRP (Properties)

(IR and formation consts. of)

RN 26394-13-8 CAPLUS

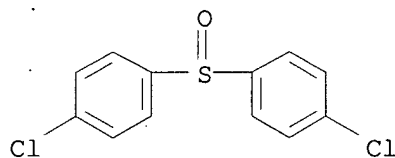
CN Hydrochloric acid, compd. with 1,1'-sulfinylbis[benzene] (1:1) (9CI) (CA INDEX NAME)



● HCl

RN 64990-52-9 CAPLUS

CN Hydrochloric acid, compd. with 1,1'-sulfinylbis[4-chlorobenzene] (1:1) (9CI) (CA INDEX NAME)



● HCl

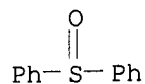
IT 945-51-7 3085-42-5

RL: PRP (Properties)

(IR of, basicity in relation to)

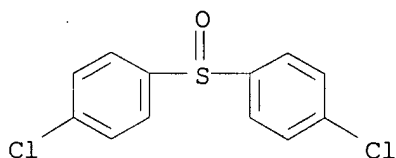
RN 945-51-7 CAPLUS

CN Benzene, 1,1'-sulfinylbis- (CA INDEX NAME)



RN 3085-42-5 CAPLUS

CN Benzene, 1,1'-sulfinylbis[4-chloro- (CA INDEX NAME)



L4 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1968:511681 CAPLUS

DOCUMENT NUMBER: 69:111681

ORIGINAL REFERENCE NO.: 69:20919a,20922a

TITLE: Infrared spectra of benzene- and pentadeuterobenzenesulfonyl compounds

AUTHOR(S): Uno, Toyozo; Machida, Katsunosuke; Hanai, Kazuhiko

CORPORATE SOURCE: Fac. Pharm. Sci., Kyoto Univ., Kyoto, Japan

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LANGUAGE: English

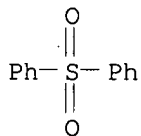
AB The ir spectra 4000-400 cm.<sup>-1</sup> of benzenesulfonamide, benzenesulfonanilide, benzenesulfonyl chloride, and diphenyl sulfone are reported together with the spectra of the corresponding pentadeuterobenzenesulfonyl compds. The isotopic shift of the characteristic bands near 1090 cm.<sup>-1</sup> of benzenesulfonyl compds. gives evidence of the assignment of this band to a mixed mode of the C-S stretching and a ring skeletal vibration. The benzene and deuterobenzene ring frequencies of these compds. are in close correspondence with those of chlorobenzene and chlorobenzene-d<sub>5</sub>. The effects of the N-deuteration and the ring deuteration on the SO<sub>2</sub> group frequencies are discussed.

IT 127-63-9 21885-27-8

RL: PRP (Properties)  
(spectrum (ir) of)

RN 127-63-9 CAPLUS

CN Benzene, 1,1'-sulfonylbis- (CA INDEX NAME)

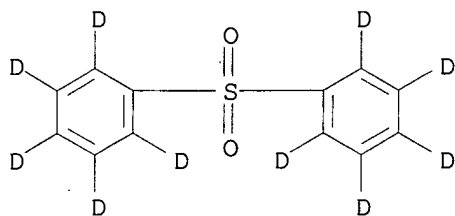


RN 21885-27-8 CAPLUS

CN (Phenyl sulfone)-d<sub>10</sub> (8CI) (CA INDEX NAME)

10/521,531

07/16/2008



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Executing the logoff script...

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COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

100.53

279.10

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE  
ENTRY

TOTAL  
SESSION

CA SUBSCRIBER PRICE

-13.60

-13.60

STN INTERNATIONAL LOGOFF AT 07:51:07 ON 16 JUL 2008